

## MOG 2024

# Mathematics of Gas Transport and Energy

October 10-11, 2024

Novotel Regensburg

Landshuter Straße 27, 93047 Regensburg

### Thursday, 10 October 2024

08:30 – 09:00	Registration
09:00 – 09:10	Opening
09:10 – 09:50	Merve Bodur (University of Edinburgh) <i>Copositive Duality Pricing for Discrete Energy Markets</i>
09:50 – 10:15	Rinaldo M. Colombo (University of Brescia) <i>Networks, Clustering and Cryptography</i>
10:15 – 10:45	Coffee break
10:45 – 11:15	Lena Salm (TenneT TSO) <i>Grid development: planning for the energy system of the future</i>
11:15 – 11:45	Tom Streubel (PSI Software) <i>Challenges &amp; Chances of Reinforcement Learning for Gas Dispatching</i>
11:45 – 12:15	Johannes Schiffer (BTU Cottbus) <i>Unlocking Flexibility Potentials in Electro-Thermal Energy Systems via an Operation Control with Variable Flow Temperatures</i>
12:15 – 13:45	Lunch break
13:45 – 14:10	Simone Göttlich (University of Mannheim) <i>Energy networks under uncertain demands</i>
14:10 – 14:35	Timm Faulwasser (TU Hamburg) <i>Challenges of multi-energy distribution systems: data, learning and control</i>
14:35 – 15:15	Poster blitz (short presentations of posters à 1-2 min)
15:15 – 15:45	Coffee break
15:45 – 17:15	Poster Session
18:30	Conference Dinner at Kolpinghaus Regensburg (15min walk)

## Friday, 11 October 2024

09:00 – 09:40	Tabea Tscherpel (TU Darmstadt) <i>Energy consistent discretisation of port-Hamiltonian systems</i>
09:40 – 10:05	Jaap Pedersen (Zuse Institute Berlin) <i>Optimal discrete pipe sizing for tree-shaped CO2 networks</i>
10:05 – 10:30	Coffee break
10:30 – 11:00	Martin Stýblo (PSIG) <i>Pipeline Simulation Interest Group - history, mission and achievements</i>
11:00 – 11:30	Erich Maurer (Energieagentur Nordbayern) <i>Repurposing Gas Grids: Innovative use cases for a sustainable future in small to medium sized communities</i>
11:30 – 12:00	Jochen Deuerlein (3S Consult) <i>Modelling of gas distribution networks from a consultant's perspective</i>
12:00 – 13:30	Lunch break
13:30 – 13:55	Ann-Kathrin Wiertz (FAU Erlangen-Nürnberg) <i>Strategic retailers in the energy sector: static and dynamic pricing</i>
13:55 – 14:20	Holger Heitsch (WIAS Berlin) <i>Probabilistic maximization of time-dependent capacities in a gas network</i>
14:20 – 15:00	Miguel Anjos (University of Edinburgh) <i>Integration of Electric Vehicle Charging in Electricity Grid Operations</i>
15:00 – 15:10	Closing Session
15:10	Snacks